DP3 / Multi role / Flotel HALANI 1





GENERAL DESCRIPTION

The vessel completely redesigned and converted to a Diving Offshore

Support vessel.

Wheel house

RETROFIT- RINA class rules

The vessel also to be certified as a special purpose vessel

complying the provisions of IMO resolution A.534(13) 'Code of Safety

for Special Purpose Ships'

Propulsion : Diesel electric propulsion system

Moon Pool : 4.9x4.8 sqr mtrs.

Helideck : Suitable for a 12.8 T helicopter (Puma 32). : Sikorsky S92, D value 21m, T value 12.8 t

:41

: 2 Wheel house as per GA.Fwd Wheel House for

Navigation / GMDSS main station.Aft Wheel

House for DP Operation / Fire fighting / Mooring

Length Overall :95.80 mtrs. Length BP :89.14 mtrs. Depth Moulded :6.95 mtrs. Draft * :6.6 mtrs. GRT* :5308 mt NRT* :1707 mt :1410mt Deadweight :92.28 Mtrs LWL Breadth Mld :22.00 mtrs Displacement * :6037 MT SPS :199

DECK CAPACITIES

Crew

 Deck Strength
 :10 Ton / Sq mtrs

 Clear Deck Area*
 :850sqr mtrs

 Fuel Oil (98 %)
 :544.MT

 Fresh Water
 :506.4MT

 Ballast/Drill Water*
 :342.7MT

 Lub oil
 :20.67MT

 Dirty Oil tank
 :138.64 Cu mtr

PRINCIPAL PARTICULARS

Registry : Kingstown.
Call Sign : J8B3854
Official No. : 10327
Year Built : 2010 RB
Class : RINA

Service Notation : Supply vessel, (fire fighting ship 2)*,

accommodation DP3

Additional notation : Diving Support vessel DYNAPOS

AM/ AT RS

Type : RINA C Supply vessel, fire fighting

vessel : 85907 : 7816379

Hull No. : 3763
Flag : St Vincent & the Grenadines
Ship builder : VEROLME HEUSDEN BV

Ship yard : ZHOUSHAN HONGZHOU SHIPBUILDING CO. LTD. China

Country of Economic Benefit : St Vincent & the Grenadines

PERFORMANCE

Class No.

IMO No.

Maximum speed :10 Knots Wpx Economical speed :7Knots

Average fuel consumption :In port approx 3 Cu mtr estimated

Type of fuel :Marine Gas oil

At Sea : 12 Mt in DP mode estimated

At Sea Navigation : 13 Mt at Sea Speed

DP3 / Multi role / Flotel HALANI 1



PROPULSION SYSTEM

Propulsion type : OIL ENGINE(S), ELECTRIC

DRIVE 2 x Voith Schneider

propeller

Power : (2 x 1000 Kw Electrical Motor,

3000V/50Hz each)

2 x 2000 Kw

PCD/ No. of Blades : 3600 MM, 5 Blades RPM/Pitch : 58.2 Constant RPM / Variable

Pitch

Tunnel Thruster : 2 x Brunvoll, FU 80 LTC 1000 /

1100 Kw

Azimuth Thruster : 2 x Brunvoll AR 63 LNC 2100 /

800 Kw
Engine : 2 x 3(in each Engine room) 8 M

: 2 x 3(in each Engine room) 8 M 332 AK

Manufacturer : MAK

Model : 8 M 332 @750 rpm

Power : 1290 KW Total power:- 6x1290 KW

Main Alternator : 2 x 3 in each Engine room

Manufacturer : Heemaf

Model : HWS – 1470 – 8

Rating :1200 KVA, 3000 V, 50 Hz.

Aux. alternator :2 x 1255 KVA, 380 V, 50 Hz , 3 Phase Eme. Genr engine : Cummins NTA 855 — D (M)

Power : 240 KW.

Alternator : Stamford 380V, 250 KVA, 50 Hz.

Alternator : Stamford 380V, 250 KVA, 50 Hz. Step down Transformer :2x2500 KVA (3KV to 380 V) , 50

Step down Transformer :2x2500 KVA (3KV to 380 V) , 50 Hz Voltages available :3KV, 380, 220, 110 & 24 V / 50 Hz

GMDSS/COMMUNICATION

 MMSI No.
 :375765000.

 Sat C Id
 :437576510

 Sr. No.
 :4 TT093C8BA2F

 Mini C Id
 :437576511.

SAT Telephone : Thrane & Thrane - TT 3064 AA Mini M : Mini M - Fax / Phone - TT 3617 A

SVDR :VER 4000

VHF DSC : Sailor VHF DSC Thrane & Thrane

FCC ID - TCORT 5 022

Sailor HC 4500 MF/HF Thrane &

Thrane HC 4500

MF / HF Transreciever, Thrane &

Thrane - HT 4520 / D 6T

Satellite EPIRB :2(406 ghz)

SART :2
VHF Radio 1
Portable VHF Radio :3
Navtex Receiver :SNX 3

X-Band Radar :1

Echo Sounder :SKIPPER- ED 165

Gyrocompass :NAVIGAT

Weather Fax :FX 220, Freq- 80khz,160Khz,2-

2.4Khz

Speed Log :NIL Magnetic Compass :1

AIS :SAMYUNG ENL SI-30 VSAT :Sevsatim and Setvro ™,Kuband,

VSAT :Sevsatim and Setvro [™],Kuband, Data speed 64Kbps upward, 2 Tel

lines to multimegabyte

IMMARSAT :Fugro seastar 3510 LR inmarsat

Radar :Sperry Vision 23.1 "Flat Panel

Monitor

DP3 DYNAMIC POSITIONING SYSTEM

Dynamic positioning system : KPOS 21 WITH DP11 BACKUP

CJOY : C JOY OPERATOR TERMINAL GYRO1 : GYROSPHERE CONTAINERMOD

10/3 GYROSPHERE TYPE 3

NAVIGATX INSTALLATION KIT GYRO2 :Navigat x mk1 74807/74829

Gyrosphere type 3

GYRO3 :Navigat x mk1 74807/74829

Gyrosphere type 3

REF HIPAP : Kit, HPR transducer control , km05

TAUT WIRE :2xLKTW BANDAK 350 FANBEAM :KONSBERG Fan beam

TELESCOPIC GANGWAY :TG SENSONRS INTEGRATED
DPC1 :Dpc1,DP Controller,115/230V
DPC-2 :Dpc2, DP Controller,115/230 V

DPC-2 :Dpc2, DP Controller,115/230 V DPS132 :VGA monitor cable l=10m type

HD 15M-HD15 F

KPOS :Kpos OS 650-Kmo5slim line pannel

system

KPOS OS :Kpos Os -650 slim line cop pannel

system

MRU :Mru 5E roll pitch have, yaw sensor
PRINTER :HP LASER JET 2015n 230v CB449a#

BB2

Spot beam demodulator :Fugro Seastar 3510 LR ,Spot beam

Demond

UPS :UPS power ware 3kva MK4,230v

30min battery back up power ware

9120

DECK EQUIPMENT

Windlass : 2 x Electro Hydraulic
Anchor Chain : Dia 54 mm, Load – 139 Kn.
Prov Crane : 2 x 2 MT SWL, Electro hydraulic
Deck Crane : 2 x 100 Tons at 5 Mtrs, 15.6 M / Min

50 ton at 9 mtrs, 15 ton at 13 mtrs 10 ton at 17 mtrs, 8 ton at 21 mtrs

6 ton at 25 mtrs

Working radius : 2.6 – 12 Mtrs.

Anchor : 2 x 3780 Kg , Stockless 4 point Mooring Winch : 2 x Double Drum Winche

:2 x Double Drum Winches x 1200 mtrs x

38mm

Anchor :4xAnchors 3 Tons

TELESCOPIC GANGWAY

Maximum extended :42,0m Middle position :34,0m Retracted (Min.length :26,0m

Normal operating area :34,0m +/-5,5m

Prewarning area :34,0m +/-5,5m- +/-6,5m Emergency area :34,0m +/-6,5m - +/-7,5m

Emergency Lift Off 34,0m +/-7,5m
Slewing Capasity 300 degrees
Design max. lift angle :+20,0 degrees
Design lower angle :-20,0 degrees
Normal safe operation :+/- 5 degrees

walk angle

DP3 / Multi role / Flotel HALANI 1



ACCOMMODATIONS

: 240 persons Berths Hospital : 1 - medic - 1 : 1x14=14 One men cabin Two men cabin : 2x25=50 : 4x44=176 Four men cabin Recreation room : 2 Nos Smoke room : On each deck

Office : 6 Gymnasium : 1 Galley : 1 Laundry room : 2 Drier room

Meat room : 56.54 Cu mtr (-18 deg C) Veg room : 84.58 cu mtr (4 deg C)

Air conditioning

All accommodation spaces shall be air conditioned

to the following requirements

Outside temperature : 46 deg C : 20 deg C Inside temperature Humidity outside : 80 % Inside humidity : 50 %

HVAC

: MHX-1608-B-2 Carrier condenser Ref.condensing unit : K813HB/6J-33.2Y

COOL ROOM EVAPO : BR21 **COOL ROOM EVAPO**

MAIN DECK AHU : 30-48-W1208-016-006A **D-DECK PORT** : 16-36-W1208-016-006A **D-DECK STBD** 16-36-W1208-016-006A C-DECK 20-48-W1208-016-006A : 30-48-W1208-016-006A **B-DECK BRIDGE DECK** : 38-58-W1206-016-006A

: APW012 **FCU** FCU : APW016 **FCU** :APW020

*LIFE SAVING APPLIANCE (As per LSA)

Lifebuoys (plain) 4 Nos. Life jackets with light and : 282Nos.

whistle

Rescue boat : 6 person capacity(2 Nos.) : Zhejiang Hengxin Ship Makers equipment Co

Inflatable life raft (with HRU) :25 persons capacity each

(10 Nos.) Embarkation ladder : 4 Nos. Life saving appliances plan : 6 Nos Line throwing appliances : 4 Nos. EPIRB (float free) : 2 Nos. SART radar transponder) : 2 Nos. 2 way radio telephone : 2 Nos.

apparatus

Rocket parachute flares : 1 set 2 way emergency : 6Nos

communication system

Embarkation station : 4 Nos. Muster station (assembly : 4 Nos.

station)

*FIRE CONTROL PLAN (As per FCP)

: 72cu. m//hr x 65 mwc Fire/bilge pump (electric motor driven) : 65 cu./hr x 65 mwc Bilge/ballast pump (electric motor driven) : 70 m cube/hr x 75 mwc Emergency fire pump

(diesel eng driven) : with 64 mm dia Fire hydrants

instaneous type of coupling

Fire hose + nozzle water : 15 m / 64 mm dia with

dual purpose nozzle 12 mm dia

: as per SOLAS International shore connection Emergency escape breathing : As per FCP

Device (EEBD)

Fire man's outfit : 6 Nos.

Self containing breathing app (SCBA): 1 of air hose type other

self contained Fire blanket

: 2 Nos. Fire extinguisher CO2 type : As per FCP 1990 (eng room)

Foam installation tank : 400 ltrs foam installation

Fuel pump's remote shut off : 1 No. Ventilation remote control or shut off : 1 No. for accommodation and services spaces

Ventilation remote control or shut off : As per FCP

for machinery room

Fire damper for accommodation and : As per FCP

services spaces : As per FCP

Closing device for ventilation inlet or outlet for accommodation and

services spaces

Closing device for ventilation : As per FCP

inlet or outlet for machinery room

Fire control plan : 6 Nos. Emergency switchboard : 200 KVA Control panel for fire detection : 3 Nos.

and alarm system

Manually operated call points : 55 Nos. Fire bucket : 6 Nos. Protective equipment : 2 Nos. Spare charges for portable : 8 Nos.

Fire extinguisher

Spare charge for EEBD : 8 Nos.

DP3 / Multi role / Flotel HALANI 1

FI- FI 2 System (optional)

FIRE MONITOR (WITH JET/SPRAY NOZZLE)

Qty : 3 sets

Type : Electric remote control single

barrel monitor with adjustable

scattering nozzle

: SS300EL/F Model Rated capacity : 2400m³/h Throw head : 160m Height : 80m Inlet pressu : 1.2Mpa

: Motor driven (380VAC 3ph Operatin ethod

50Hz) with local manual

operated

Rotation : +175°/-175° (with limit switch) Elevation : -45°/+75° (with limit switch)

Protection class : IP65 Insulation class : F

WIRELESS REMOTE CONTROLLER MANUFACTURE : OMNEX

Qty : 1 set Model : FST716

Installation : Monitor control cabinet

Protection class

Function:

Rotation and elevation of 4 monitors 1.

The change-over for jet/spray of 4 monitors

3. The change-over for water/foam of 2 monitors

Clutch on/off

FIRE PUMP

: 3 sets Qtv

Type : Single stage double suction,

bottom suction top discharge

: XCCXB400-350-620 Model

Capacity : 2400 m^{3/}h : 1000 r/min Speed Total head : 145m : 1100 KW Power

FI-FI System with Gearbox

GEARBOX

Qty ·2 sets

Including the following parts: Built-in hydraulic clutch Vertical offset shafts Mechanical oil pump

220V AC clutch control solenoid valve for remote Control,

and manual local operation

All cables on the gearbox shall be wired into a terminal box mounted on top of the gearbox Gearbox shall be rated to handle the power

requirements of the coupled pump at run-out condition

input speed : 1800rpm output speed 1 : 1500rpm output speed 2 : 1800rpm input power P : 1170kw

MONITOR CONTROL CABINET MANUFACTURE: NANJING SHUN SHING

This cabinet include wireless remote control receiver, PLC device, air switch, direct current power and other required electric components. Size (Length×Width×Height) :1000×1200×300 (Approved

when)

Protection class : IP44

Location :Aft Wheel house: The Schneider electric components will be used in this cabinet.

Control panel and Electron motherboard

:1 set

Installation :In the wheelhouse

Electron motherboard:

Function of control panel in the wheelhouse:

- The action of monitors
- Chang-over switch for water/foam
- 3. Three position switch for jet/curtain change-over
- Clutch on/off and indicator
- 5. Open/Close switch and indicator of pump outboard discharge valve
- 6. Open/Close switch and indicator of proportioner seawater inlet valve
- 7. Open/Close switch and indicator of proportioner foam inlet
- Open/Close switch and indicator of proportioner mix liquid 8. outlet valve
- Automatically clutch-off indicator when the engine reach 9 80% load
- 10. Alarm buzzer
- Alarm answer button
- 12. Indicator light test button
- Dimmer button
- Chang-over switch for local/portable control
- 15. light indicator for by-pump and wheelhouse control

PUMP CONTROL

M ANUFACTURE: NANJING SHUN SHING

Qty : 2 sets Installation : By pump Protection class : IP44 Starboard/larboard by pump function:

Clutch on switch(with light indicator)

- 2.
- Open/Close of all electric butterfly valve (inlet valve, outlet valve, by-path and outboard valve) with light indicator 3
- Pump running metre
- Change-over for local control/remote control with light indicator
- The by-path valve and main valve have order control function after startup of pump
- 6. Interlock function between gearbox and seawater discharge
- 7. Open/close switch of proportioner seawater inlet valve with light
- 8. Open/close of proportioner foam inlet valve with light indicator
- Open/close of proportioner mix liquid outlet valve with light indicator

FIRE PUMP

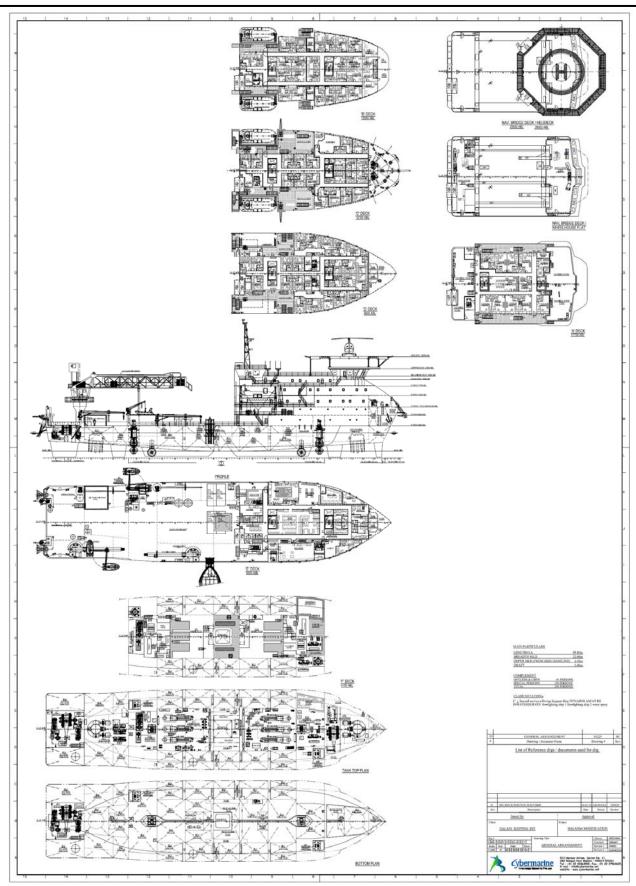
Qty : 1 sets

: Single stage single suction, Type alax Suction top discharge

: SSCXB300-250-540 Model

: 1000 m³/h Capacity Speed : 1450 r/min : 70m Total head





Particulars given are entirely without warranty as to correctness and interested parties must satisfy themselves by inspection of the vessel *Vessel subject to modification at Colombo, Data subject to change after inclining experiment